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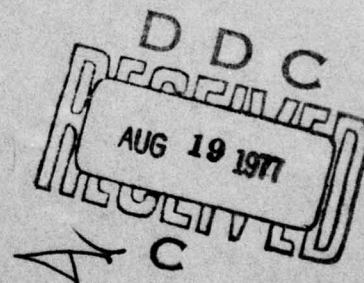
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NAVAL OCEANOGRAPHIC OFFICE REFERENCE PUBLICATION 17(76)

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**AERIAL ICE RECONNAISSANCE  
AND SATELLITE ICE INFORMATION  
MICROFILM FILE - 1976**

**MAY 1977**



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**DEPARTMENT OF THE NAVY  
WASHINGTON, D. C. 20373**

#### ABSTRACT

The Aerial Ice Reconnaissance and Satellite Ice Information Microfilm File of the Naval Oceanographic Office contains 35-mm microfilm copies of ice information gathered subsequent to 1969 in the Antarctic and 1971 in the Arctic and is detailed in full in Naval Oceanographic Office Reference Publication 17 (NOO RP 17). That publication lists all available microfilm imagery of unclassified chart analyses of aerial ice reconnaissance and satellite ice information compiled by Fleet Weather Facility, Suitland, Maryland through calendar year 1975. This supplement updates the microfilm file listings in NOO RP 17 and tabulates the available microfilm imagery of ice data gathered during calendar year 1976.

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**AERIAL ICE RECONNAISSANCE  
AND SATELLITE ICE INFORMATION  
MICROFILM FILE - 1976.**  
Supplement I.

10  
**PETER A. MITCHELL**

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**MAY 1977**

9 Reference publication,



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WASHINGTON, D. C. 20373

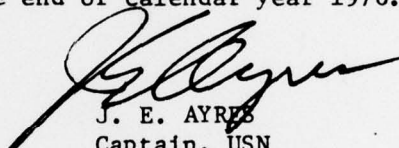
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## FOREWORD

This publication is the first in an anticipated series of supplements to the Naval Oceanographic Office Reference Publication 17, which documents the composition and functioning of NAVOCEANO's Aerial Ice Reconnaissance and Satellite Ice Information Microfilm File. The file serves as an important adjunct to the Navy's extensive ice data files and aids the researcher and ice forecaster in their quest for improved prediction techniques. This supplement lists new accessions to the file through the end of calendar year 1976.

  
J. E. AYRES  
Captain, USN  
Commander

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## Introduction

Between 1953 and 1974 the Naval Oceanographic Office (NAVOCEANO) presented historical synoptic ice data gathered during U.S. Navy, U.S. Coast Guard, and Danish polar operations conducted from 1952 through 1971 in its annual reports of both the Arctic and Antarctic ice observing and forecasting programs (Naval Oceanographic Office, 1953-1974). These publications provided in chart form ice conditions observed by aerial reconnaissance and interpreted from satellite imagery for the eastern and western sectors of the North American Arctic and in selected portions of the seas surrounding the Antarctic Continent. These series of reports terminated with the 1969 and 1971 annual reports for the Antarctic and Arctic, respectively.

In order to preserve the ice data gathered subsequent to 1969 in the Antarctic and 1971 in the Arctic, a microfilm file of all unclassified chart analyses of aerial ice reconnaissance and satellite ice information compiled by the Ice Department of Fleet Weather Facility, Suitland, Maryland was established in 1975 within the Fleet Applications Department (Code 3700) of NAVOCEANO. The contents and operation of this microfilm file (including procedures to follow when requesting duplicate copies of microfilm imagery), as well as listings of all sea ice data on microfilm available from NAVOCEANO through the end of calendar year 1975, were presented in detail in NAVOCEANO Reference Publication 17 (Naval Oceanographic Office, 1976).

## Microfilm Listing

This supplement lists all available microfilm imagery of ice data gathered and subsequently added to the Aerial Ice Reconnaissance and Satellite Ice Information Microfilm File during calendar year 1976. The microfilm imagery is listed according to three geographical areas: eastern (east of 90°W and west of 90°E) Arctic, western (west of 90°W and east of 90°E) Arctic, and Antarctica (Tables 1, 2, and 3). Other pertinent information included in the listings is as follows: (1) type of data (aerial reconnaissance (RECCO) or satellite interpretation (SAT)); (2) date of mission, in the case of aerial reconnaissance, or date of issuance of the satellite ice chart, which in most cases details ice conditions for the preceding week or portion thereof; (3) nation that flew the aerial reconnaissance; and (4) the number of microfilm images needed to present the entire chart analyses of the aerial reconnaissance mission. A single satellite ice chart for each geographical area is contained on one image.

## REFERENCES

- U.S. Naval Oceanographic Office, Aerial ice reconnaissance and satellite ice information microfilm file, Ref. Pub. 17, 30pp., Washington, D.C., 1976.
- U.S. Naval Oceanographic Office, Antarctic ice observations October 1962 - March 1963, Spec. Pub. SP-80 (62), 58 pp., Washington, D.C., 1963.
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- U.S. Naval Oceanographic Office, Report(s) of the Antarctic ice observing and forecasting program - 1964-69, Spec. Pubs. SP-80 - (64) through 80 - (69), Washington, D.C., 1966-1971.
- U.S. Naval Oceanographic Office, Report(s) of the Arctic ice observing and forecasting program - 1960-71, Spec. Pubs. SP-70 (60) through 70 (71), Washington, D.C. 1962-1974.
- U.S. Navy Hydrographic Office, Report of ice observations and forecasting for the season 1953, H.O. MISC. 15869 (1953), 65 pp., Washington, D.C., 1954.
- U.S. Navy Hydrographic Office, Report of ice operations Labrador Sea, Baffin Bay, and Canadian Arctic summer 1952, H.O. MISC. 15721-52, 67 pp., Washington, D.C., 1953.
- U.S. Navy Hydrographic Office, Report(s) of ice observing and forecasting program - 1954-57, Tech. Reports TR-49 through 52, Washington, D.C., 1955-1958.
- U.S. Navy Hydrographic Office, Report of the ice observing and forecasting program-1958, Tech. Report TR-66, 148 pp., Washington, D.C., 1959.
- U.S. Navy Hydrographic Office, Report of the ice observing and forecasting program-1959, Tech. Report TR-69, 121 pp., Washington, D.C., 1961.



TABLE 1. MICROFILM, EASTERN ARCTIC

<u>TYPE</u>	<u>DATE</u>	<u>OBSERVING NATION</u>	<u>NO. OF IMAGES</u>	<u>TYPE</u>	<u>DATE</u>	<u>OBSERVING NATION</u>	<u>NO. OF IMAGES</u>
RECCO	1/02/76	DENMARK	1	RECCO	4/02/76	DENMARK	1
RECCO	1/03/76	DENMARK	1	RECCO	4/02/76	DENMARK	1
SAT	1/06/76		1	RECCO	4/04/76	DENMARK	2
RECCO	1/06/76	U.S.	2	RECCO	4/06/76	DENMARK	1
RECCO	1/08/76	DENMARK	1	SAT	4/06/76		1
SAT	1/13/76		1	RECCO	4/09/76	DENMARK	1
SAT	1/20/76		1	RECCO	4/09/76	DENMARK	1
RECCO	1/20/76	DENMARK	1	RECCO	4/12/76	DENMARK	1
RECCO	1/20/76	DENMARK	1	RECCO	4/13/76	DENMARK	1
RECCO	1/25/76	U.S.	2	RECCO	4/13/76	DENMARK	2
RECCO	1/26/76	U.S.	3	RECCO	4/13/76	DENMARK	1
SAT	1/27/76		1	SAT	4/13/76		1
RECCO	1/29/76	U.S.	1	RECCO	4/16/76	DENMARK	1
RECCO	1/29/76	U.S.	3	RECCO	4/17/76	DENMARK	1
SAT	2/03/76		1	SAT	4/20/76		1
RECCO	2/04/76	U.S.	2	RECCO	4/21/76	DENMARK	1
RECCO	2/09/76	DENMARK	1	RECCO	4/22/76	DENMARK	1
SAT	2/10/76		1	RECCO	4/22/76	DENMARK	1
RECCO	2/11/76	U.S.	1	RECCO	4/26/76	DENMARK	1
RECCO	2/15/76	DENMARK	1	RECCO	4/27/76	DENMARK	1
SAT	2/17/76		1	SAT	4/27/76		1
RECCO	2/18/76	DENMARK	1	RECCO	5/01/76	DENMARK	1
RECCO	2/19/76	DENMARK	1	RECCO	5/03/76	DENMARK	1
SAT	2/24/76		1	RECCO	5/03/76	DENMARK	1
RECCO	2/25/76	DENMARK	1	SAT	5/04/76		1
RECCO	2/26/76	DENMARK	2	RECCO	5/05/76	DENMARK	1
RECCO	2/27/76	U.S.	3	RECCO	5/07/76	DENMARK	1
RECCO	2/28/76	U.S.	1	RECCO	5/08/76	DENMARK	1
RECCO	3/01/76	DENMARK	2	RECCO	5/10/76	DENMARK	1
RECCO	3/01/76	U.S.	1	SAT	5/11/76		1
SAT	3/02/76		1	RECCO	5/12/76	DENMARK	1
RECCO	3/03/76	U.S.	2	RECCO	5/14/76	DENMARK	1
RECCO	3/03/76	U.S.	2	RECCO	5/17/76	DENMARK	1
SAT	3/09/76		1	SAT	5/18/76		1
RECCO	3/10/76	FRANCE	1	RECCO	5/19/76	DENMARK	1
RECCO	3/14/76	U.S.	1	SAT	5/25/76		1
SAT	3/16/76		1	RECCO	5/27/76	DENMARK	1
RECCO	3/17/76	DENMARK	1	RECCO	5/30/76	U.S.	1
RECCO	3/21/76	DENMARK	2	RECCO	5/31/76	U.S.	1
RECCO	3/21/76	DENMARK	1	RECCO	5/31/76	DENMARK	1
SAT	3/23/76		1	RECCO	5/31/76	DENMARK	1
RECCO	3/25/76	DENMARK	2	RECCO	6/01/76	U.S.	2
RECCO	3/27/76	U.S.	1	SAT	6/01/76		1
RECCO	3/28/76	DENMARK	2	RECCO	6/02/76	DENMARK	1
RECCO	3/28/76	DENMARK	1	RECCO	6/02/76	DENMARK	1
SAT	3/30/76		1	RECCO	6/02/76	U.S.	4

TABLE 1. MICROFILM, EASTERN ARCTIC (CON.)

<u>TYPE</u>	<u>DATE</u>	<u>OBSERVING NATION</u>	<u>NO. OF IMAGES</u>	<u>TYPE</u>	<u>DATE</u>	<u>OBSERVING NATION</u>	<u>NO. OF IMAGES</u>
RECCO	6/04/76	DENMARK	1	SAT	7/27/76		1
RECCO	6/06/76	DENMARK	1	RECCO	7/28/76	DENMARK	1
RECCO	6/06/76	DENMARK	1	RECCO	7/31/76	DENMARK	1
RECCO	6/08/76	DENMARK	1	RECCO	8/02/76	DENMARK	1
RECCO	6/08/76	DENMARK	1	RECCO	8/02/76	DENMARK	2
SAT	6/08/76		1	RECCO	8/03/76	DENMARK	1
RECCO	6/09/76	DENMARK	1	SAT	8/03/76		1
RECCO	6/10/76	U.S.	1	RECCO	8/06/76	DENMARK	1
RECCO	6/10/76	DENMARK	1	RECCO	8/09/76	U.S.	1
RECCO	6/14/76	DENMARK	1	RECCO	8/09/76	DENMARK	1
RECCO	6/15/76	DENMARK	1	RECCO	8/10/76	DENMARK	1
SAT	6/15/76		1	SAT	8/10/76		1
RECCO	6/17/76	DENMARK	1	RECCO	8/11/76	U.S.	2
RECCO	6/20/76	DENMARK	2	RECCO	8/12/76	U.S.	1
RECCO	6/22/76	DENMARK	1	RECCO	8/12/76	U.S.	1
SAT	6/22/76		1	RECCO	8/14/76	U.S.	1
RECCO	6/23/76	DENMARK	2	RECCO	8/15/76	DENMARK	1
RECCO	6/25/76	DENMARK	1	RECCO	8/16/76	DENMARK	1
RECCO	6/25/76	DENMARK	1	SAT	8/17/76		1
RECCO	6/28/76	U.S.	2	RECCO	8/18/76	DENMARK	1
RECCO	6/28/76	DENMARK	1	RECCO	8/19/76	DENMARK	1
RECCO	6/29/76	U.S.	2	RECCO	9/24/76	DENMARK	1
SAT	6/29/76		1	SAT	8/24/76		1
RECCO	7/01/76	U.S.	4	RECCO	8/26/76	DENMARK	1
RECCO	7/03/76	DENMARK	1	RECCO	8/30/76	DENMARK	3
RECCO	7/05/76	DENMARK	2	SAT	8/31/76		1
RECCO	7/06/76	DENMARK	1	RECCO	9/03/76	DENMARK	1
SAT	7/06/76		1	RECCO	9/06/76	DENMARK	1
RECCO	7/08/76	DENMARK	1	SAT	9/07/76		1
RECCO	7/11/76	DENMARK	1	RECCO	9/08/76	DENMARK	1
RECCO	7/11/76	DENMARK	1	RECCO	9/13/76	DENMARK	1
RECCO	7/12/76	DENMARK	1	SAT	9/14/76		1
RECCO	7/12/76	DENMARK	1	SAT	9/21/76		1
RECCO	7/13/76	DENMARK	1	RECCO	9/28/76	DENMARK	1
SAT	7/13/76		1	SAT	9/28/76		1
RECCO	7/14/76	DENMARK	1	SAT	10/05/76		1
RECCO	7/14/76	DENMARK	1	SAT	10/12/76		1
RECCO	7/15/76	DENMARK	1	RECCO	10/14/76	DENMARK	1
RECCO	7/17/76	DENMARK	1	RECCO	10/19/76	DENMARK	1
RECCO	7/19/76	U.S.	2	SAT	10/19/76		1
RECCO	7/19/76	DENMARK	1	RECCO	10/22/76	DENMARK	1
RECCO	7/19/76	DENMARK	2	SAT	10/26/76		1
RECCO	7/20/76	U.S.	2	RECCO	10/27/76	DENMARK	1
SAT	7/20/76		1	RECCO	10/30/76	DENMARK	1
RECCO	7/22/76	U.S.	3	SAT	11/02/76		1
RECCO	7/22/76	DENMARK	1	RECCO	11/05/76	DENMARK	1
RECCO	7/25/76	DENMARK	1	RECCO	11/08/76	DENMARK	1
RECCO	7/25/76	DENMARK	1	RECCO	11/09/76	DENMARK	1
RECCO	7/26/76	DENMARK	1	SAT	11/09/76		1

TABLE 1. MICROFILM, EASTERN ARCTIC (CON.)

<u>TYPE</u>	<u>DATE</u>	<u>OBSERVING NATION</u>	<u>NO. OF IMAGES</u>	<u>TYPE</u>	<u>DATE</u>	<u>OBSERVING NATIONS</u>	<u>NO. OF IMAGES</u>
RECCO	11/11/76	U.S.	2	RECCO	12/01/76	DENMARK	1
RECCO	11/13/76	DENMARK	1	RECCO	12/06/76	DENMARK	1
RECCO	11/16/76	DENMARK	1	SAT	12/07/76		1
SAT	11/16/76		1	RECCO	12/08/76	DENMARK	1
RECCO	11/21/76	DENMARK	1	SAT	12/14/76		1
RECCO	11/22/76	DENMARK	1	RECCO	12/16/76	DENMARK	1
SAT	11/23/76		1	RECCO	12/19/76	NATO	1
RECCO	11/26/76	DENMARK	1	RECCO	12/20/76	DENMARK	1
RECCO	11/30/76	DENMARK	1	SAT	12/21/76		1
SAT	11/30/76		1	SAT	12/28/76		1

TABLE 2. MICROFILM, WESTERN ARCTIC

<u>TYPE</u>	<u>DATE</u>	<u>OBSERVING NATION</u>	<u>NO. OF IMAGES</u>	<u>TYPE</u>	<u>DATE</u>	<u>OBSERVING NATION</u>	<u>NO. OF IMAGES</u>
SAT	1/06/76		1	RECCO	7/15/76	U.S.	2
SAT	1/13/76		1	RECCO	7/19/76	U.S.	1
SAT	1/20/76		1	RECCO	7/19/76	U.S.	1
SAT	1/27/76		1	RECCO	7/20/76	U.S.	1
SAT	2/03/76		1	SAT	7/20/76		1
SAT	2/10/76		1	RECCO	7/22/76	U.S.	1
SAT	2/17/76		1	RECCO	7/22/76	U.S.	1
SAT	2/24/76		1	RECCO	7/23/76	U.S.	1
RECCO	2/25/76	U.S.	1	RECCO	7/25/76	U.S.	2
RECCO	2/25/76	U.S.	1	RECCO	7/27/76	U.S.	1
RECCO	2/27/76	U.S.	1	SAT	7/27/76		1
RECCO	3/01/76	U.S.	1	RECCO	7/28/76	U.S.	1
SAT	3/02/76		1	RECCO	7/29/76	U.S.	1
RECCO	3/03/76	U.S.	1	RECCO	7/30/76	U.S.	1
SAT	3/09/76		1	RECCO	7/30/76	U.S.	2
RECCO	3/09/76	U.S.	1	RECCO	8/01/76	U.S.	1
RECCO	3/11/76	U.S.	1	RECCO	8/02/76	U.S.	1
RECCO	3/13/76	U.S.	1	SAT	8/03/76		1
SAT	3/16/76		1	RECCO	8/04/76	U.S.	1
RECCO	3/17/76	U.S.	1	RECCO	8/09/76	U.S.	1
RECCO	3/19/76	U.S.	1	RECCO	8/09/76	U.S.	2
RECCO	3/19/76	U.S.	1	SAT	8/10/76		1
RECCO	3/20/76	U.S.	1	RECCO	8/12/76	U.S.	1
RECCO	3/22/76	U.S.	1	RECCO	8/13/76	U.S.	1
SAT	3/23/76		1	RECCO	8/14/76	U.S.	1
RECCO	3/28/76	U.S.	2	RECCO	8/16/76	U.S.	1
RECCO	3/29/76	U.S.	1	SAT	8/17/76		1
RECCO	3/30/76	U.S.	1	RECCO	8/18/76	U.S.	2
SAT	3/30/76		1	RECCO	8/21/76	U.S.	1
RECCO	4/01/76	U.S.	1	RECCO	8/23/76	U.S.	1
RECCO	4/04/76	U.S.	1	RECCO	8/24/76	U.S.	1
SAT	4/06/76		1	SAT	8/24/76		1
SAT	4/13/76		1	SAT	8/31/76		1
SAT	4/20/76		1	RECCO	9/03/76	U.S.	2
SAT	4/27/76		1	SAT	9/07/76		1
SAT	5/04/76		1	RECCO	9/10/76	U.S.	2
SAT	5/11/76		1	SAT	9/14/76		1
SAT	5/18/76		1	SAT	9/21/76		1
SAT	5/25/76		1	SAT	9/28/76		1
SAT	6/01/76		1	SAT	10/05/76		1
SAT	6/08/76		1	SAT	10/12/76		1
RECCO	6/09/76	U.S.	1	SAT	10/19/76		1
SAT	6/15/76		1	SAT	10/26/76		1
SAT	6/22/76		1	SAT	11/02/76		1
RECCO	6/28/76	U.S.	1	SAT	11/09/76		1
SAT	6/29/76		1	SAT	11/16/76		1
SAT	7/06/76		1	SAT	11/23/76		1
SAT	7/13/76		1	SAT	11/30/76		1



TABLE 2. MICROFILM, WESTERN ARCTIC (CON.)

<u>TYPE</u>	<u>DATE</u>	<u>OBSERVING NATION</u>	<u>NO. OF IMAGES</u>	<u>TYPE</u>	<u>DATE</u>	<u>OBSERVING NATION</u>	<u>NO. OF IMAGES</u>
SAT	12/07/76		1	SAT	12/21/76		1
SAT	12/14/76		1	SAT	12/28/76		1

TABLE 3. MICROFILM, ANTARCTIC

<u>TYPE</u>	<u>DATE</u>	<u>OBSERVING NATION</u>	<u>NO. OF IMAGES</u>	<u>TYPE</u>	<u>DATE</u>	<u>OBSERVING NATION</u>	<u>NO. OF IMAGES</u>
SAT	1/08/76		1	SAT	7/15/76		1
SAT	1/15/76		1	SAT	7/22/76		1
SAT	1/22/76		1	SAT	7/29/76		1
SAT	1/29/76		1	SAT	8/05/76		1
SAT	2/05/76		1	SAT	8/12/76		1
SAT	2/12/76		1	SAT	8/19/76		1
SAT	2/19/76		1	SAT	8/26/76		1
SAT	2/26/76		1	SAT	9/02/76		1
SAT	3/04/76		1	SAT	9/09/76		1
SAT	3/11/76		1	SAT	9/16/76		1
SAT	3/18/76		1	SAT	9/23/76		1
SAT	3/25/76		1	SAT	9/30/76		1
SAT	4/01/76		1	SAT	10/07/76		1
SAT	4/08/76		1	SAT	10/14/76		1
SAT	4/15/76		1	SAT	10/21/76		1
SAT	4/22/76		1	SAT	10/28/76		1
SAT	4/29/76		1	SAT	11/04/76		1
SAT	5/06/76		1	SAT	11/11/76		1
SAT	5/13/76		1	SAT	11/18/76		1
SAT	5/20/76		1	SAT	11/24/76		1
SAT	5/27/76		1	SAT	12/02/76		1
SAT	6/03/76		1	SAT	12/09/76		1
SAT	6/10/76		1	RECCO	12/13/76	U.S.	1
SAT	6/17/76		1	RECCO	12/13/76	U.S.	2
SAT	6/24/76		1	SAT	12/16/76		1
SAT	7/01/76		1	SAT	12/23/76		1
SAT	7/08/76		1	SAT	12/30/76		1

DISTRIBUTION

NAVY

CNO (NOP-06C)  
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COMNAVSURFLANT  
COMSC  
COMSCLANT  
COMSCPAC (2)  
COMNAVSUPFORANTARCTICA  
FLENUMWEACEN  
FLEWEACEN GUAM  
FLEWEACEN ROTA  
FLEWEAFAC  
FLETRACEN  
DIRNAVOCEANMET  
COMNAVSEASYSOM  
DTNSRDC  
NUSC NPT  
NRL  
NAVWPNCEN  
NISC  
COMNAVFACEGCOM  
NAVPGSCOL (2)  
NAVARCLAB  
USNA ANNA  
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NOAA, NWS/W13  
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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER NOO RP 17 (76)	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle)  Aerial Ice Reconnaissance and Satellite Ice Information Microfilm File - 1976		5. TYPE OF REPORT & PERIOD COVERED  Reference Publication
		6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s)  Peter A. Mitchell		8. CONTRACT OR GRANT NUMBER(s)
9. PERFORMING ORGANIZATION NAME AND ADDRESS Naval Oceanographic Office Washington, D.C. 20373		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
11. CONTROLLING OFFICE NAME AND ADDRESS Naval Oceanographic Office Washington, D.C. 20373		12. REPORT DATE May 1977
		13. NUMBER OF PAGES 18
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		15. SECURITY CLASS. (of this report)  UNCLASSIFIED
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report)		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)  Approved for public release, distribution unlimited		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)		
Annual ice reports      Western Arctic      U.S. Navy polar operations Microfilm file      35-mm microfilm      U.S. Coast Guard polar Eastern Arctic      Danish polar operations      operations Satellite imagery      Satellite ice information Antarctic      Aerial ice reconnaissance		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number)		
The Aerial Ice Reconnaissance and Satellite Ice Information Microfilm File of the Naval Oceanographic Office contains 35-mm microfilm copies of ice information gathered subsequent to 1969 in the Antarctic and 1971 in the Arctic and is detailed in full in Naval Oceanographic Office Reference Publication 17 (NOO RP 17). That publication lists all available microfilm imagery of unclassified chart analyses of aerial ice reconnaissance and satellite ice information compiled by Fleet Weather Facility, Suitland, (Cont. on reverse side)		

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20. Cont.

Maryland through calendar year 1975. This supplement updates the microfilm file listings in NOO RP 17 and tabulates the available microfilm imagery of ice data gathered during calendar year 1976.

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